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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,498	02/20/2004	Li-Shyue Lai	TSM03-0199	7579	
43859 75	90 02/07/2005		EXAM	EXAMINER	
SLATER & MATSIL, L.L.P. 17950 PRESTON ROAD, SUITE 1000			LEE, CALVIN		
DALLAS, TX	•		ART UNIT	ART UNIT PAPER NUMBER	
•			2818		
			DATE MAILED: 02/07/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/783,498	LAI et al.			
		Examiner	Art Unit			
		Lee, Calvin	2818			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ad	idress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)	Responsive to communication(s) filed on					
2a)□	This action is FINAL. 2b) This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4) Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) 1-38 are subject to restriction and/or election requirement.						
Applicati	ion Papers			,		
9)	The specification is objected to by the Examine	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	under 35 U.S.C. § 119		•			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen	t(s)					
1) Notic	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		O-152)		

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Docket: TSM03-0199 LAI et al.

## OFFICE ACTION

## Election/Restriction

1. Claims 1-38 are pending in this application.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- (I) Claims 1-11 and 29-38, drawn to a phase change memory cell, [class 257, subclass 2];
- (II) Claims 12-28, drawn to a method of fabricating a memory cell, [class 438, subclass 596].
- 2. Inventions I and II are related as product made and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the product as claimed can be made by another and materially different process or (2) that the process as claimed can be used to make other and materially different product (MPEP § 806.05(f)).

In this case: (Group I compared to Group II) the phase change memory cell, comprising an interface between a conductive film and a phase change material layer, can be formed not only by the claimed method but also by other semiconductor process/methods, and vise versa.

3. Applicant is advised that the reply to this requirement to be completed must include an election of the invention to be examined even though the requirement is traversed (37CFR 1.143).

## **Contact Information**

4. Any inquiry concerning this communication from the Examiner should be directed to Calvin Lee at (571) 272-1896 from 7:00AM to 5:00PM (Monday-Thursday, Eastern Time). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2825's Supervisory Patent Examiner David C. Nelms can be reached at (571) 272-1787.

Any inquiry relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0596. The central fax number is (703) 872-9306 for all communications to be entered (e.g., amendments, remarks, IDS, etc.)

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